

MOT PHASE 4 NOTES

1. SIGNAL-RELATED WORK IN THIS CONSTRUCTION PHASE WILL ENTAIL TRENCHING FOR INSTALLING PEDESTRIAN SIGNAL HEADS AND PUSHBUTTONS ON PEDESTAL AND EXISTING MAST ARM POLE, AND FOR INSTALLING NON-INVASIVE PROBES IN A FUTURE CONSTRUCTION PHASE. INSTALLED EQUIPMENT SHALL BE BAGGED UNTIL THE SIGNAL CONSTRUCTION IS COMPLETE.
2. INSTALLATION OF HANDHOLES AND CONDUIT FOR INTERCONNECT AND NON-INVASIVE PROBES TO THE WEST WILL BE INCLUDED IN THIS PHASE.
3. SIGNAL HEAD ALIGNMENT WILL MATCH THE TRAFFIC FLOW PATTERN FOR THIS PHASE OF CONSTRUCTION.

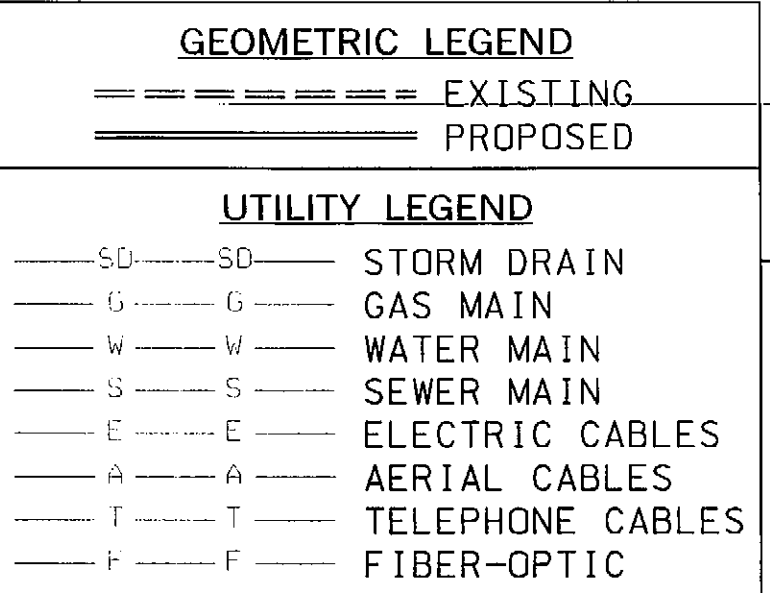
NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

CONSTRUCTION DETAILS

- A. REPOSITION EXISTING SIGNAL HEADS ON MAST ARM TO ALIGN WITH TEMPORARY LANE CONFIGURATION.
- B. INSTALL 10' PEDESTAL POLE ON 18' x 36" BASE, WITH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AND AUDIO PUSHBUTTON AND SIGN (NOTE: 1-2" 90° PVC BEND). COUNTDOWN PEDESTRIAN SIGNAL HEAD AND PUSHBUTTON SIGN ARE TO BE BAGGED UNTIL THE ULTIMATE SIGNAL IS TURNED ON.
- C. INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED.
- D. INSTALL LED COUNTDOWN PEDESTRIAN SIGNAL HEAD WITH AUDIO PUSHBUTTON AND SIGN ON EXISTING SIGNAL POLE. COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIO PUSHBUTTON, AND SIGN SHALL BE BAGGED UNTIL THE ULTIMATE SIGNAL IS TURNED ON.
- E. INSTALL ELECTRICAL HANDHOLE.
- F. INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED.
- G. INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT- SLOTTED.
- H. USE EXISTING HANDHOLE.
- J. USE EXISTING CONTROLLER.

- GENERAL NOTES**
1. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
 2. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, AND THE HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTION, TO MEET CLEARANCES AS SPECIFIED IN MD STD. 816.03, MD STD. 818.01, MD 818.02, AND MD STD. 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL PROPOSED SIGNAL EQUIPMENT.
 3. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" x 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
 4. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED AND APPROVED BY THE DIRECTOR OF THE OFFICE OF TRAFFIC AND SAFETY.

- GENERAL NOTES (CONT'D.)**
5. PROPOSED SIGNAL EQUIPMENT SHALL BE INSTALLED PRIOR TO THE CONSTRUCTION OF SIDEWALKS AND PEDESTRIAN RAMPS, AND THE INSTALLATION OF DETECTABLE WARNING SURFACES.
 6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING UNUSED CABLES FROM EXISTING HANDHOLES CONDUIT UTILIZED FOR REVISION 'D'.
 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND FOR PROPERLY LABELING EACH CABLE.
 8. VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
 9. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
 10. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
 11. FOR TEMPORARY PAVEMENT MARKINGS, REFER TO THE TRAFFIC CONTROL PLANS. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MD SHA STANDARDS.
 12. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.



CENTURY ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

REVISION 'D' 23299.36

PHASE 4

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 175 (ANNAPOLIS ROAD) AT
MD 713 (ROCKENBACH RD / RIDGE RD)
HANOVER, MD

MOT PHASE 4 - TRAFFIC SIGNAL PLAN			
SCALE 1" = 20'	DATE 3/17/97	CONTRACT NO. AA 175-501-585	
DESIGNED BY D. ZAFIRIS	COUNTY ANNE ARUNDEL		
DRAWN BY A. BUDNICHUH	LOGMILE 02017507.31		
CHECKED BY	TIMS NO. G533		
F.A.P. NO.	TOD NO.		
TS NO. 1295D4	DRAWING SG -17.4 OF 26	SHEET NO. 137 OF 195	

APPROVALS

TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR

ORIGINAL ON FILE

REVISIONS			
Q	BRAC RECONSTRUCT TRAFFIC SIGNAL	SHA# AA5855376	10/2010
END	W/ S. J. W. R. B. M. P. M. W.	1/5/98	
C	8/2004 - REPLACE ALL SIGNAL HEADS W/ BLACK FACED ADD NEAR SIDE SIGNAL HEADS	SHA# AT5825185	
WM	DAZ	MAR	BRK
B	9/1989 - REPLACE DETECTION ON S/B MD 713 DUE TO WIDENING		
WM	MAR	DAZ	BRK
		JH	